

FIG. 1A

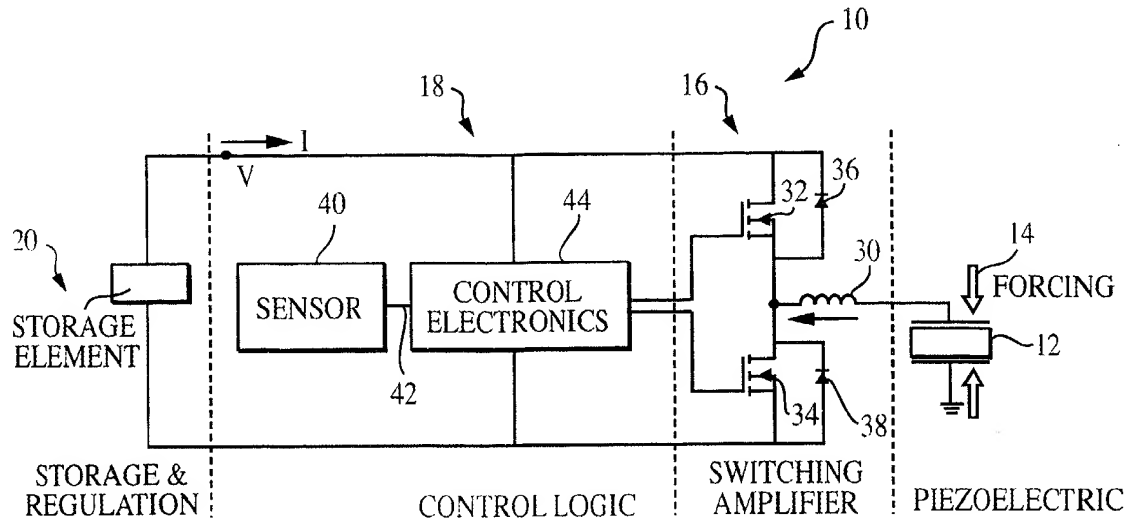


FIG. 1B

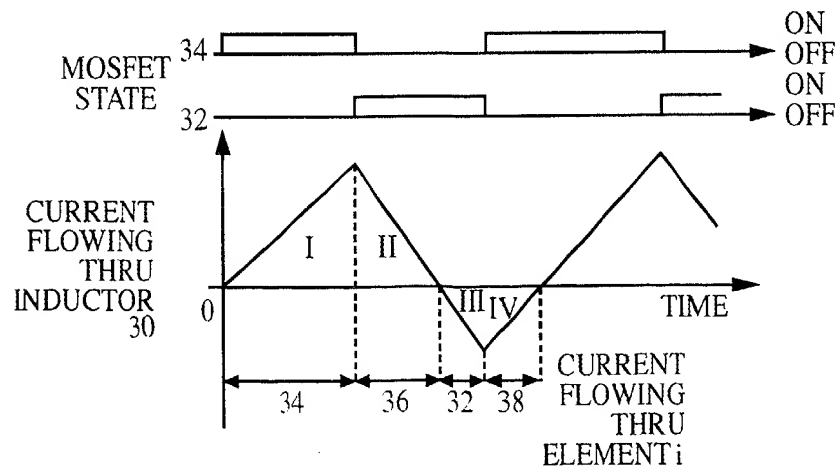


FIG. 2A

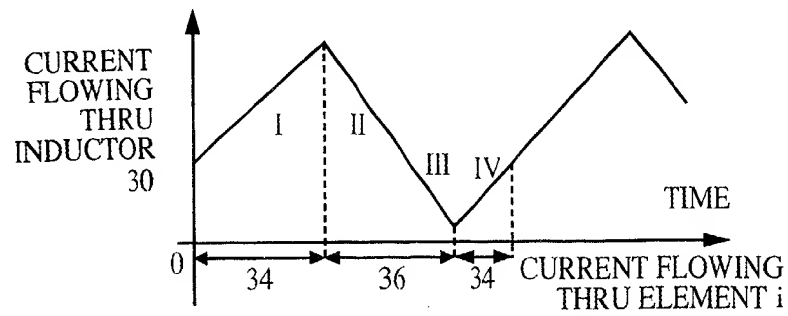


FIG. 2B

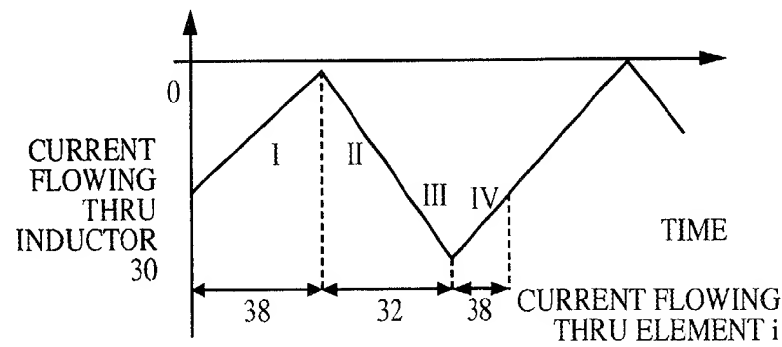


FIG. 2C

FIG. 3A

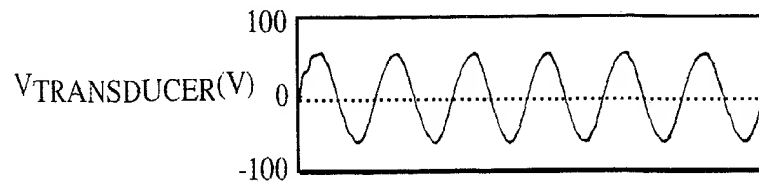


FIG. 3B

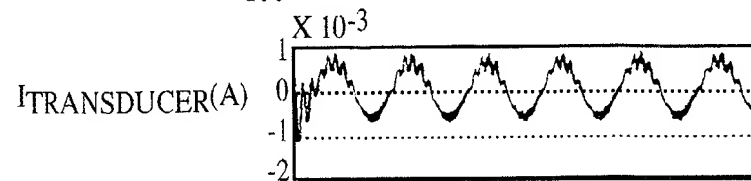


FIG. 3C

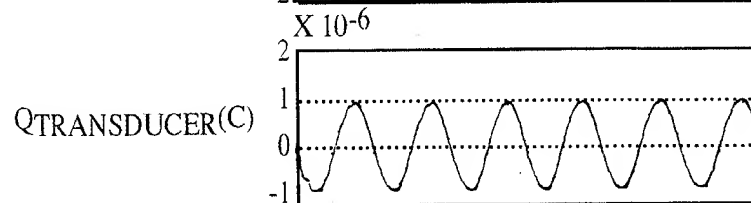


FIG. 3D

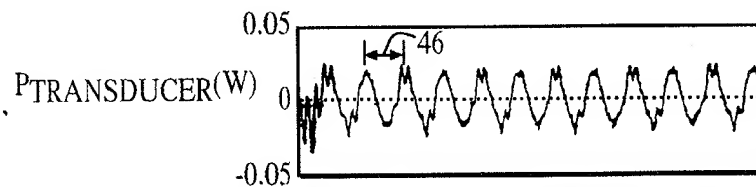


FIG. 3E

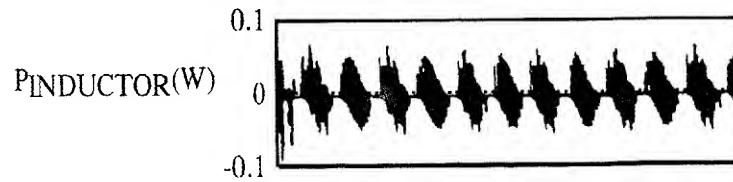


FIG. 3F

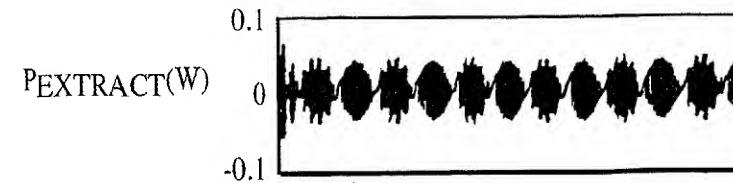
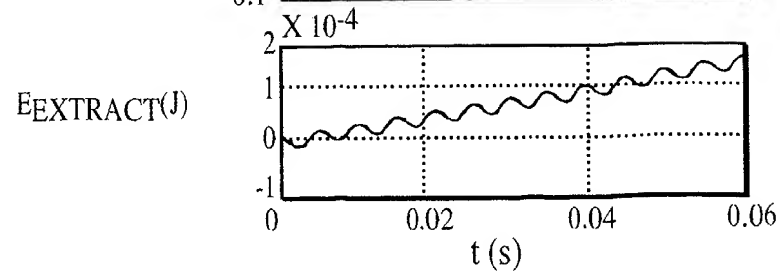


FIG. 3G



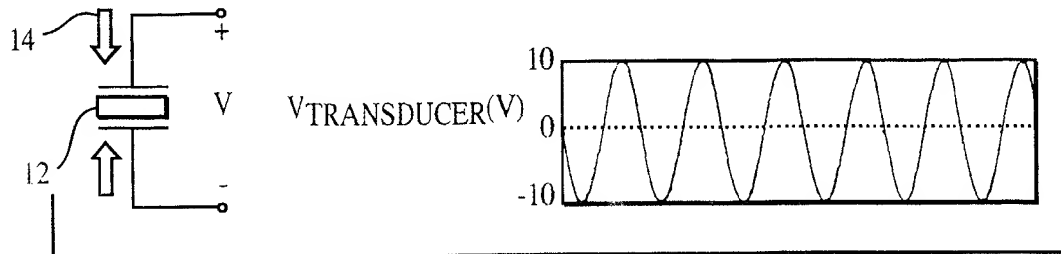


FIG. 4A

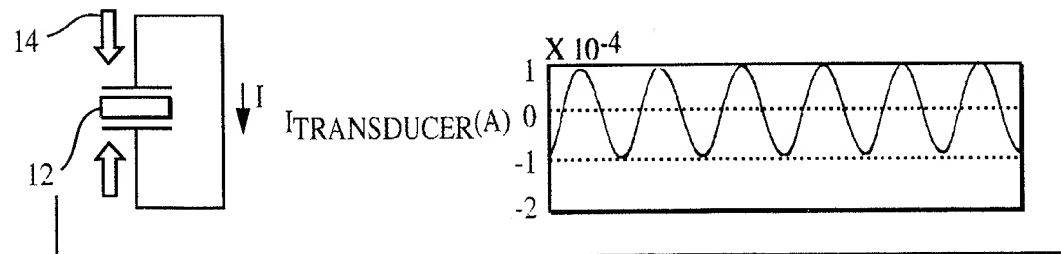


FIG. 4B

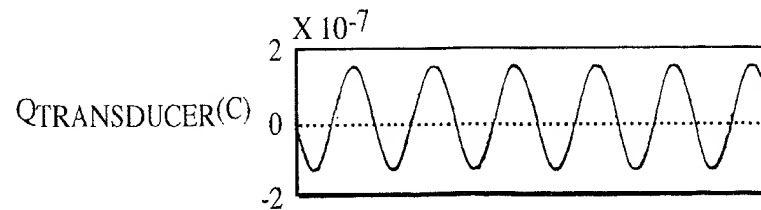


FIG. 4 C



MECHANICAL



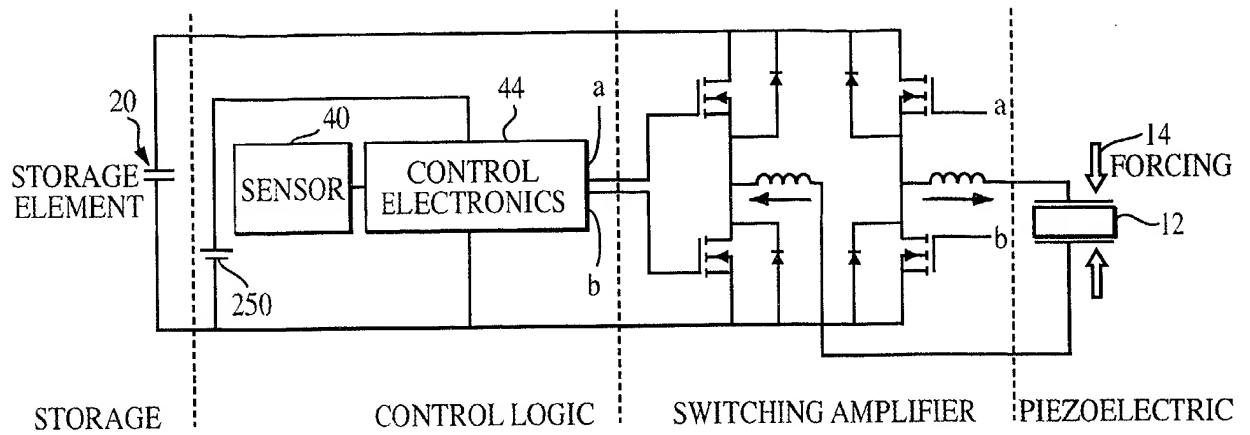


FIG. 9

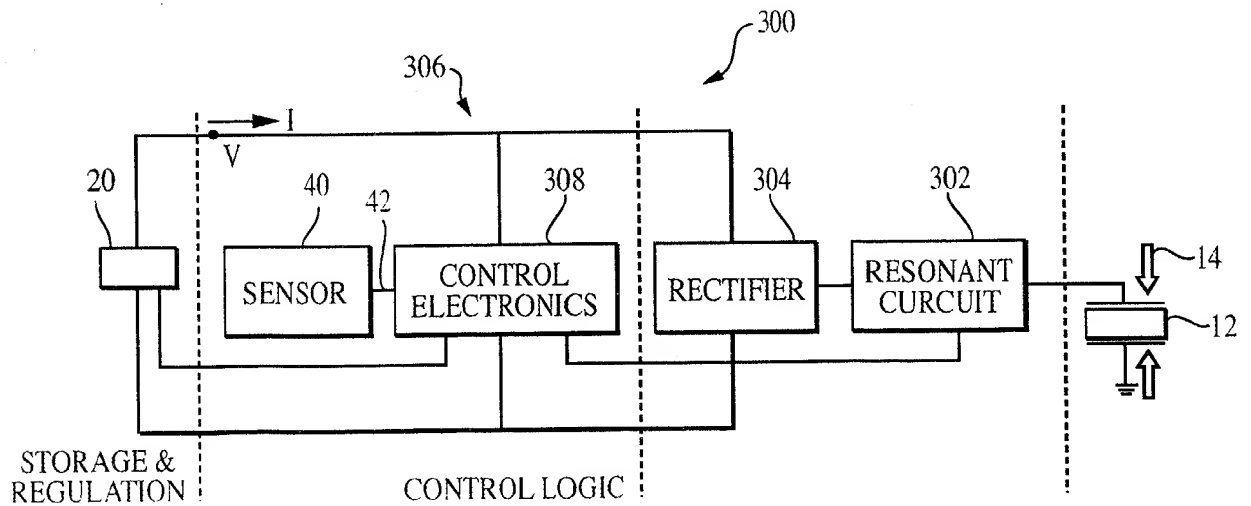


FIG. 10A

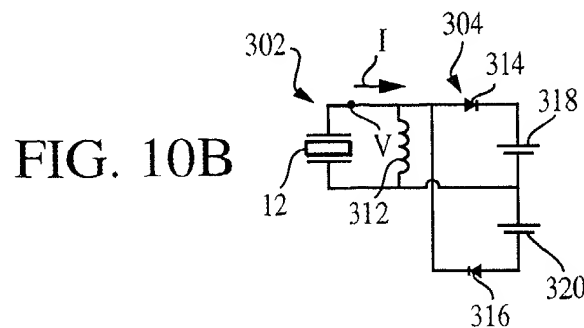


FIG. 10B

FIG. 11A

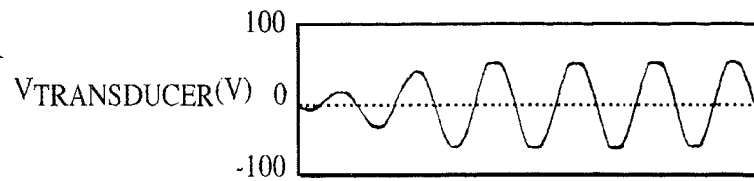


FIG. 11B

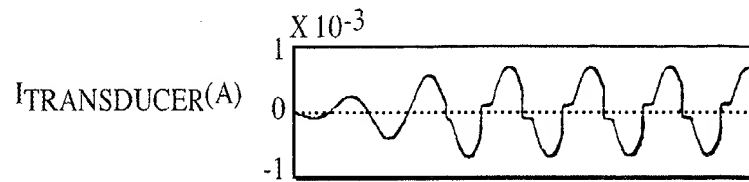


FIG. 11C

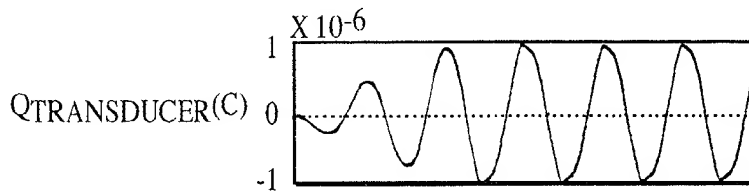


FIG. 11D

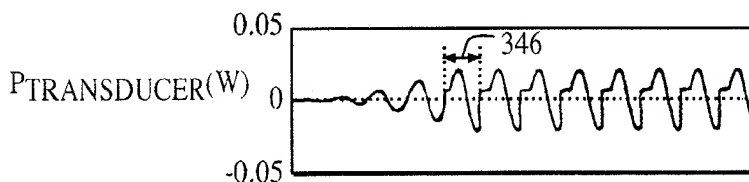


FIG. 11E

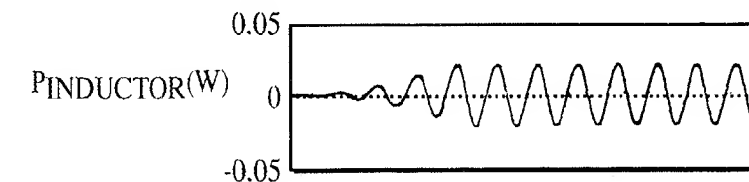


FIG. 11F

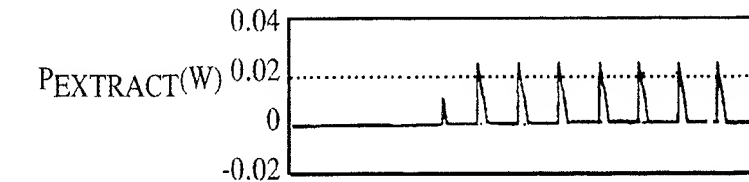
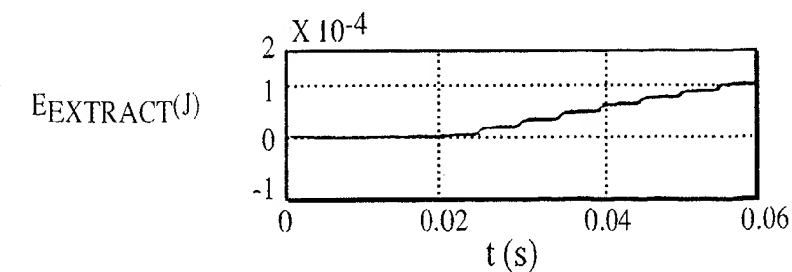


FIG. 11G



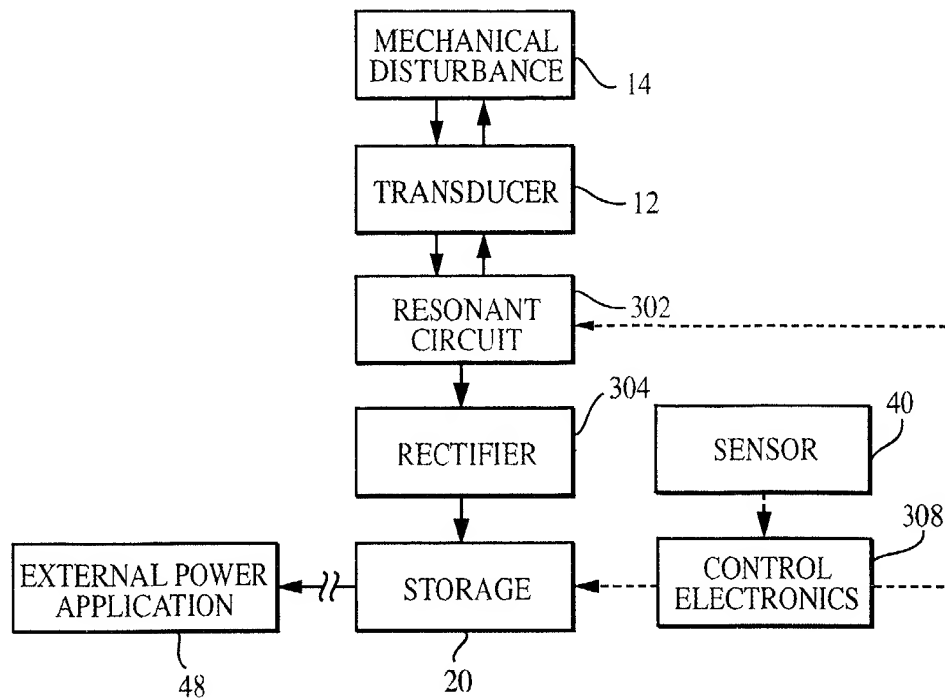


FIG. 12

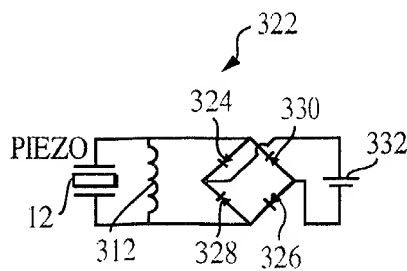


FIG. 13

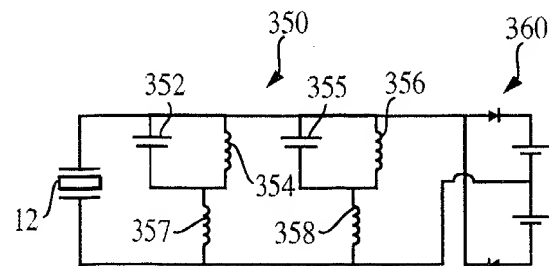


FIG. 14

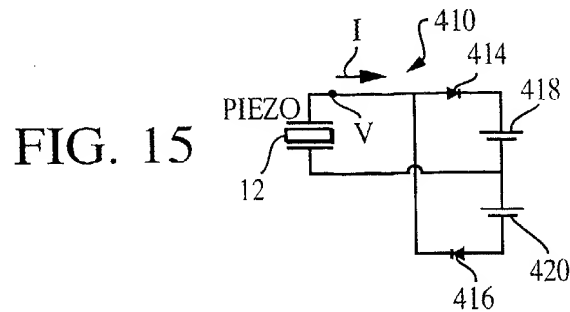


FIG. 16A TRANSDUCER
VOLTAGE

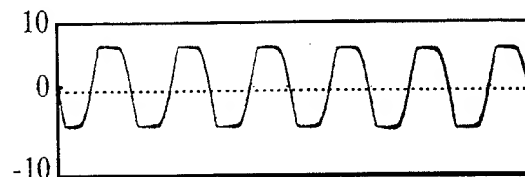


FIG. 16B TRANSDUCER
CURRENT

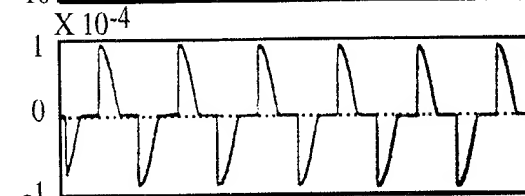


FIG. 16C $Q_{\text{TRANSDUCER}(C)}$

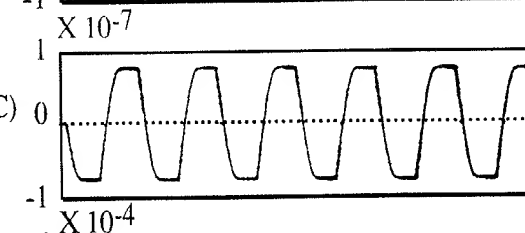


FIG. 16D $P_{\text{TRANSDUCER}(W)}$

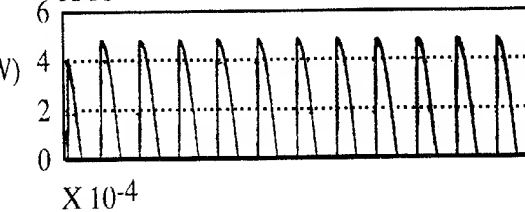


FIG. 16E $P_{\text{EXTRACT}(W)}$

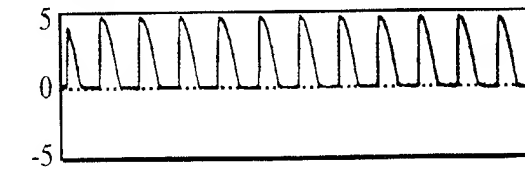
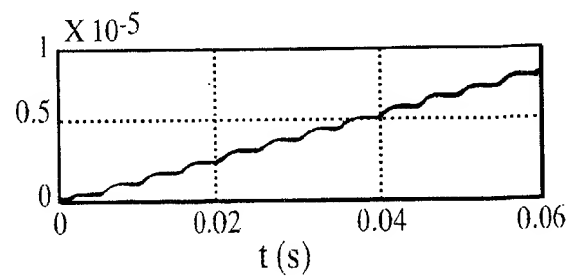


FIG. 16F $E_{\text{EXTRACT}(J)}$



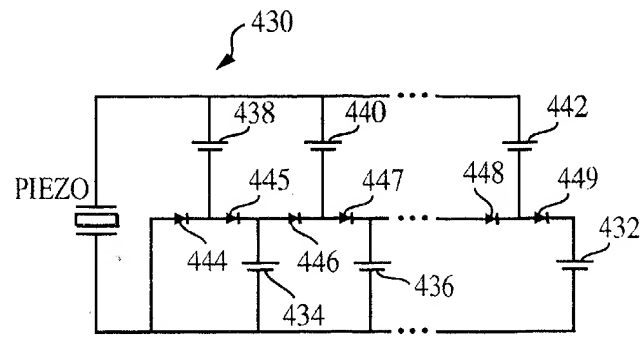


FIG. 17

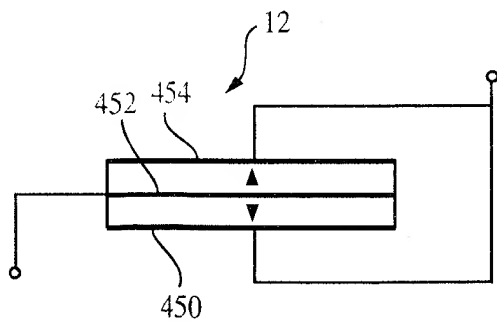


FIG. 18A

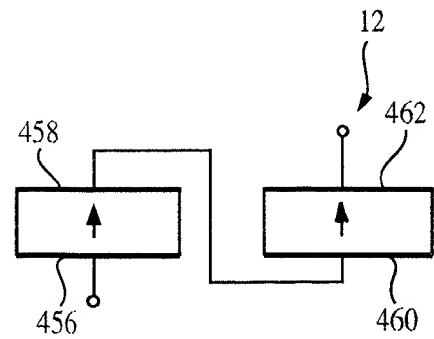


FIG. 18B

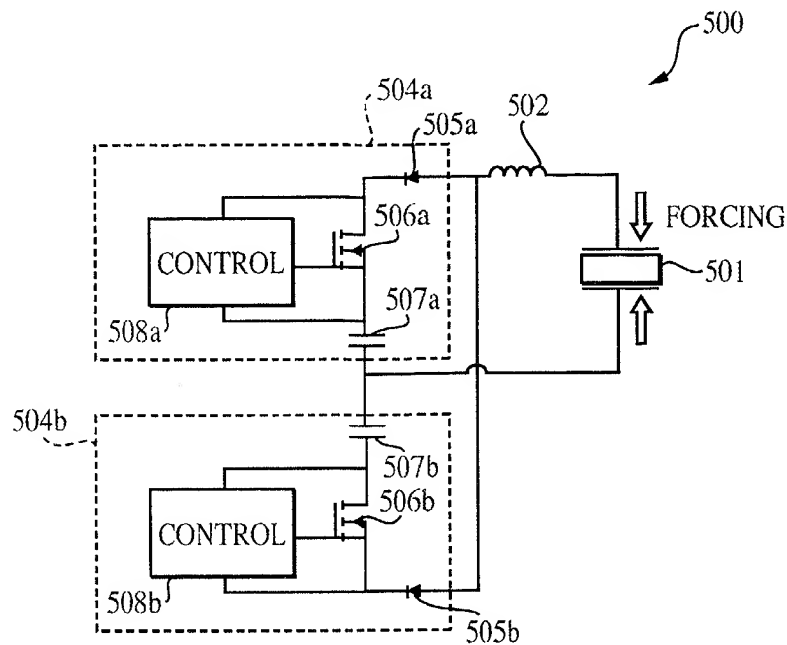


FIG. 19

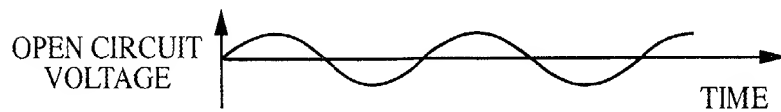


FIG. 20A

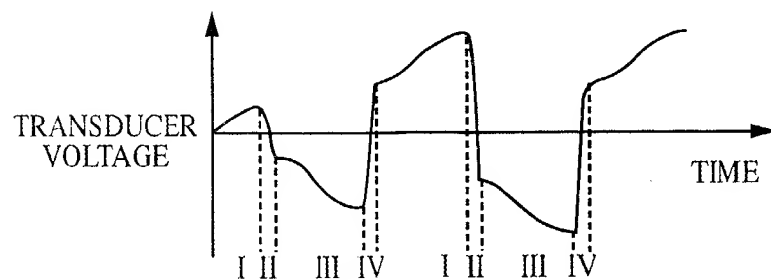


FIG. 20B

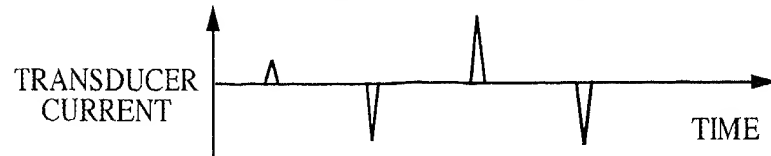


FIG. 20C

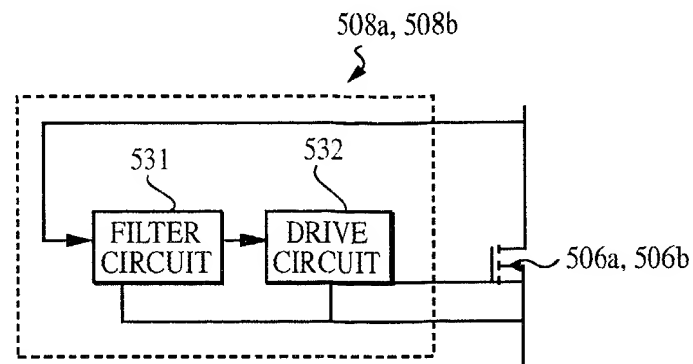


FIG. 21

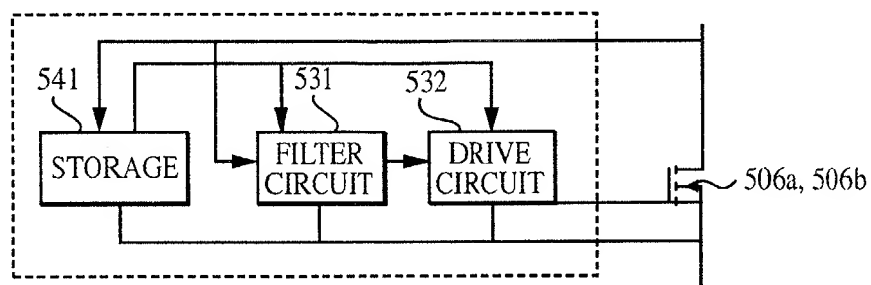


FIG. 22

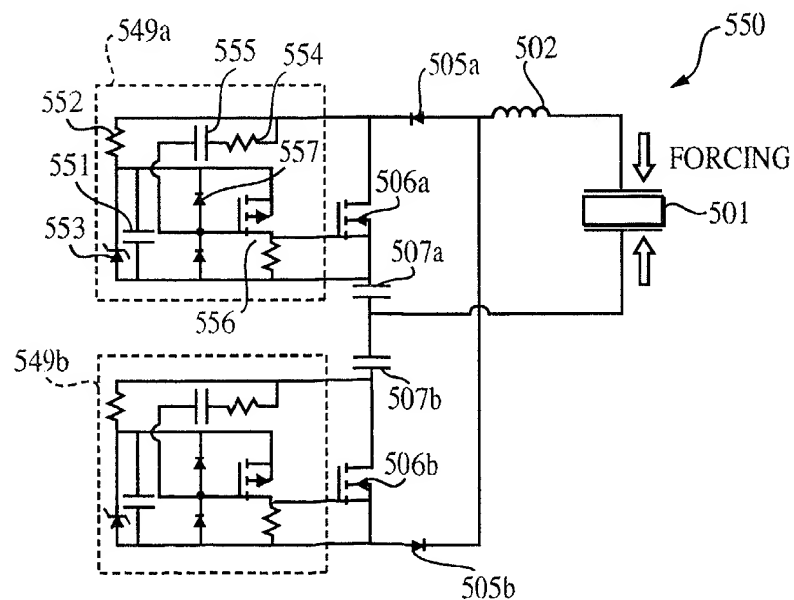


FIG. 23

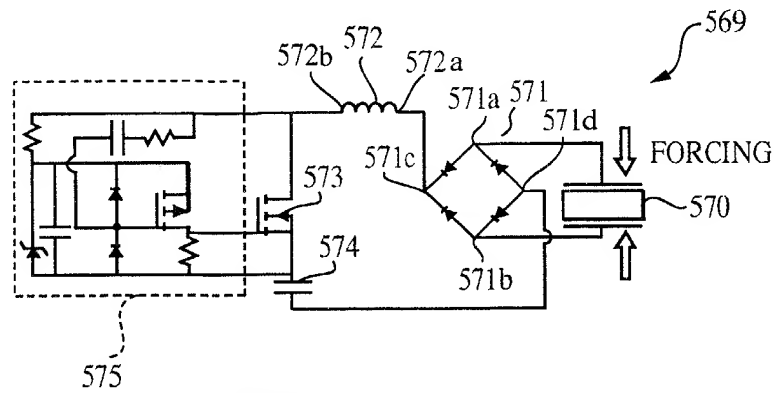


FIG. 24

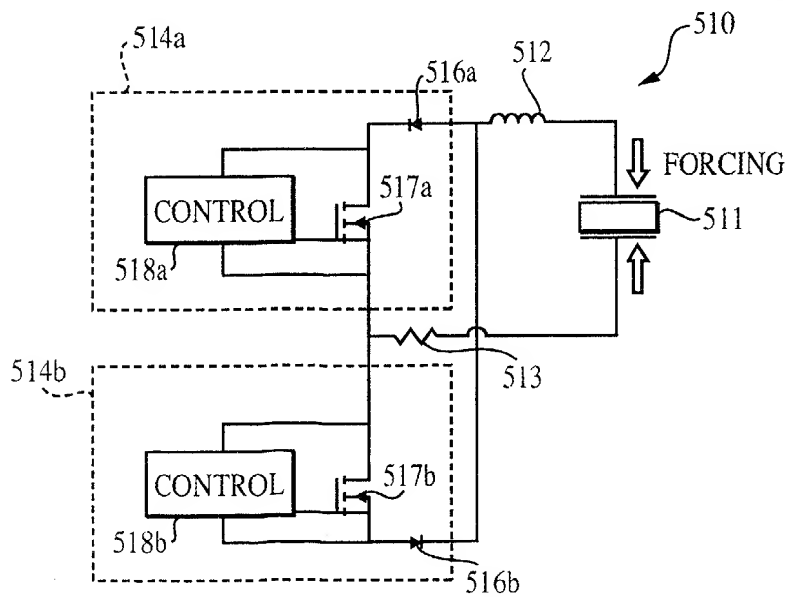


FIG. 25

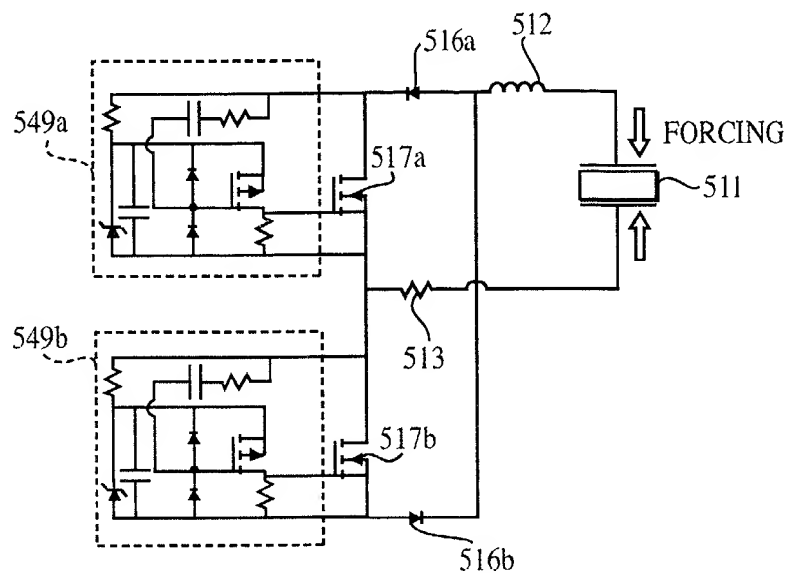


FIG. 26

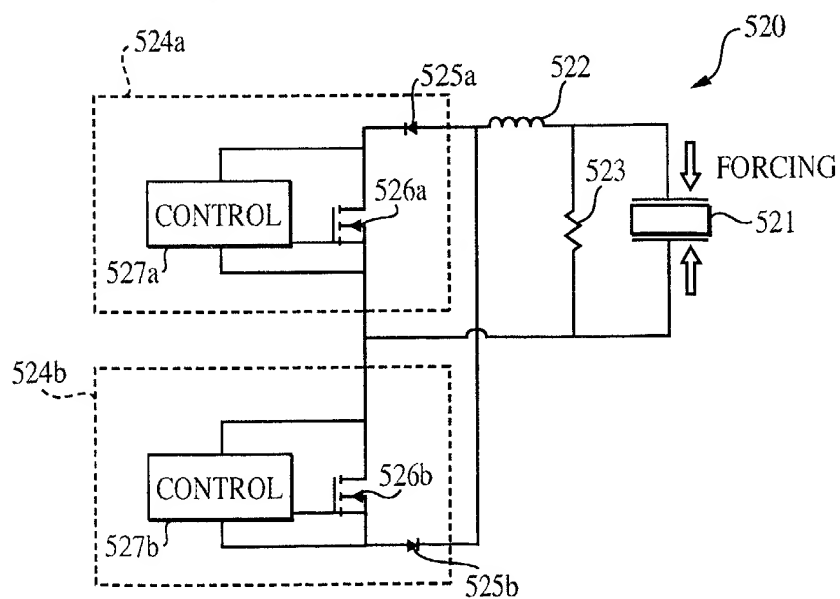


FIG. 27

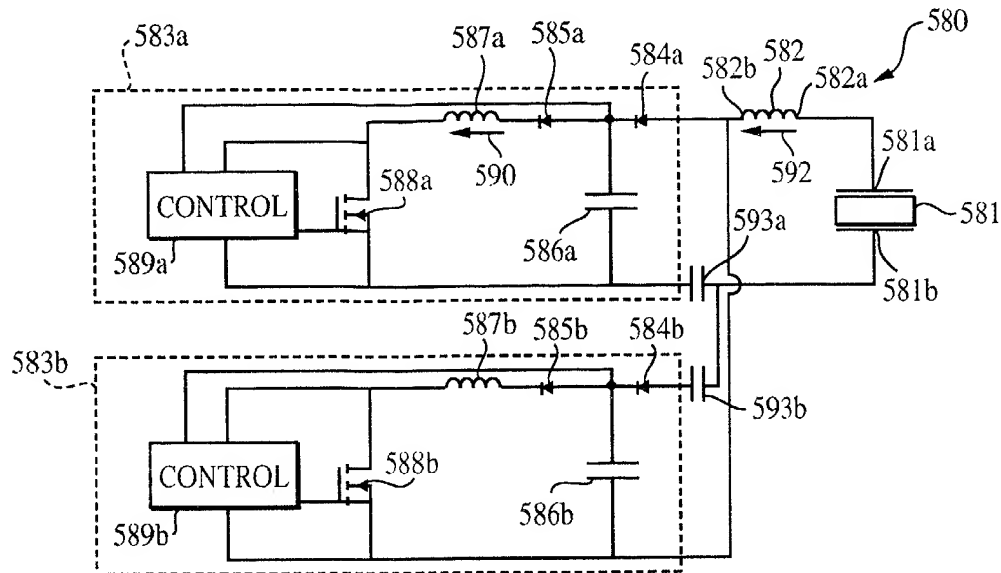


FIG. 28

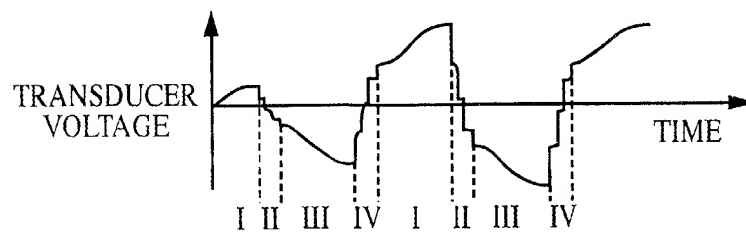


FIG. 29A

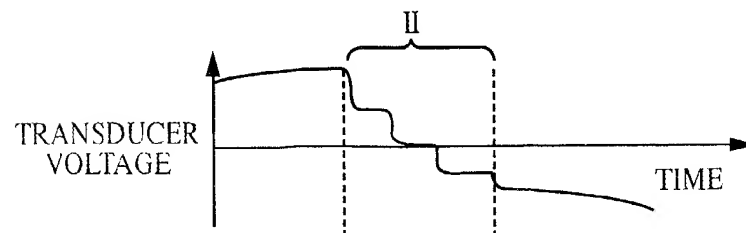


FIG. 29B

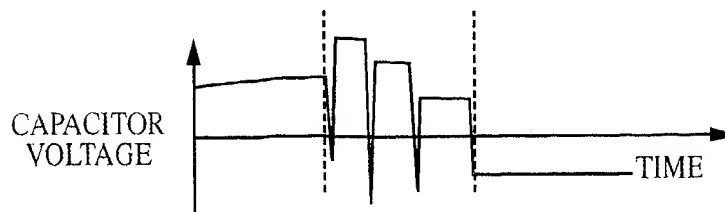


FIG. 29C

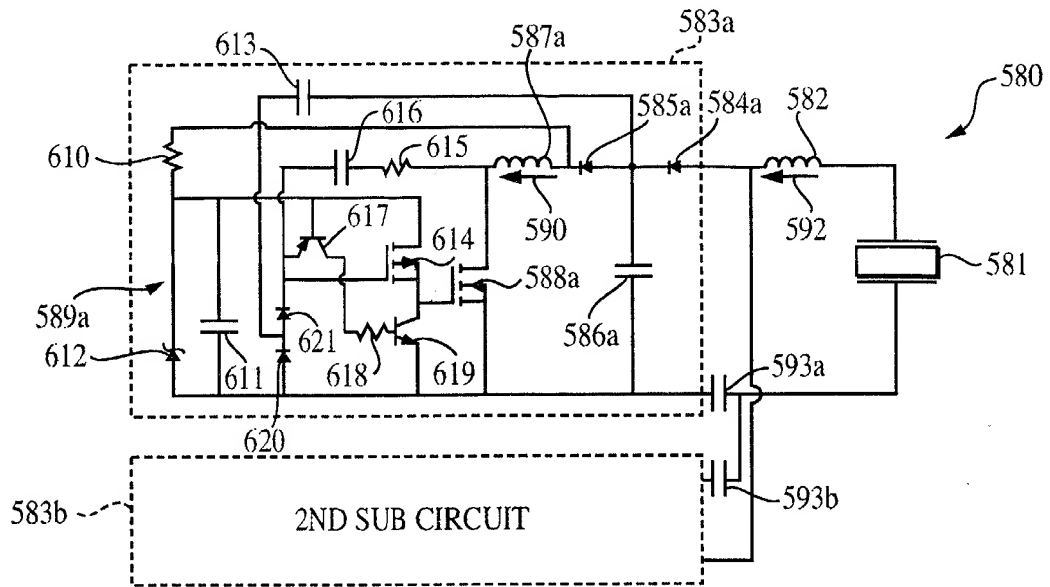


FIG. 30